Appl. No. 10/063,756 Amdt. dated March 8, 2007 Reply to Office action of December 8, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

What is claimed is:

## 1-16. (cancelled)

17. (currently amended) A method of providing Quality of Service (QoS) prioritization for wireless network stations in a network, said method comprising:

establishing a priority polling list comprising an identifier for at least a first wireless network station for which communication priority is desired;

communication priority is desired;

polling said priority polling list to determine whether said at least a

first wireless network station identified on said priority

polling list is ready to communicate on said network;

granting priority access to communicate over said network to said

at least a first wireless network station, wherein said

priority access gives said at least a first wireless network

station priority over another wireless network station

excluded from said priority polling list;

scheduling, wherein said scheduling compromises receiving priority requests from stations and adding stations to said priority polling list upon request;

sending a priority change notice to a station to indicate bandwidth is available and, upon acknowledgement from said station, increasing a priority level of said station to provide higher bandwidth to said station, when bandwidth is available.

- 18. (canceled)
- 19. (canceled)
- 20. (canceled)
- 21. (canceled)
- 22. (canceled)
- 23. (canceled)
- 24. (previously presented) An apparatus for providing Quality of Service (QoS) prioritization for wireless network stations in a network, said apparatus comprising:
  - a priority polling list comprising an identifier for at least a first wireless network station for which communication priority is desired:

- a polling unit for polling stations on said priority polling list to determine whether said at least a first wireless network station identified on said priority polling list is ready to communicate on said network:
- a coordinator for granting priority access to communicate over said network to said at least a first wireless network station, wherein said priority access gives said at least a first wireless network station priority over another wireless network station excluded from said priority polling lists;
- a bandwidth monitor for monitoring bandwidth availability;
- a scheduler for scheduling, wherein said scheduling comprises

  receiving priority requests from stations and adding stations
  to said priority polling list upon request;
- a priority manager for sending a priority change notice to a station
  to indicate bandwidth is available and, upon
  acknowledgement from said station, increasing a priority
  level of said station to provide higher bandwidth to said
  station, when bandwidth is available.

- 25. (new) A method of providing Quality of Service (QoS) prioritization for at least one wireless network station in a network, said method comprising: providing a coordination function that controls access to a network comprising wireless network stations, said controlled access occurring during a contention-free period; providing a polling list comprising identifiers for a first group of said wireless network stations in said network; providing a priority polling list comprising identifiers for a second group of said wireless network stations in said network, said second group consisting of stations for which communication priority is desired through a multi-level priority hierarchy in which more frequent access is granted to higher priority stations;
  - polling said wireless network stations with identifiers included in said priority polling list to determine whether said wireless network stations in said second group have information to communicate; and
  - granting network communication access, through said coordination function, to said wireless network stations within said second group that have information to communicate.